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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,737	03/26/2004	Ramesh Varadaraj	RV-0410	9699
27810 7590 07/21/2008 ExxonMobil Research & Engineering Company P.O. Box 900			EXAMINER	
			WARTALOWICZ, PAUL A	
1545 Route 22 East Annandale, NJ 08801-0900			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			07/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/810,737	VARADARAJ ET AL.			
Office Action Summary	Examiner	Art Unit			
	PAUL A. WARTALOWICZ	1793			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 4/22/0 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) 7-23 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	r from consideration. r election requirement.	Evaminar			
10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/29/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Election/Restrictions

Applicant's election of claims 1-6 in the reply filed on 4/22/ is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al. (EP 0475620) in view of Graham et al. (U.S. 2003/0138373).

Smith et al. teach a composition comprising a fuel (ex. diesel), 30% of water, up to 30% of an alkanol (ex. butanol, page 4, lines 28-36), 0.5-15% of surfactant with the

claimed structure (alkyl ethoxylated amine-alkyl aromatic sulfonic acid complex; page 5, lines 1-16).

Smith et al. teaches that this fuel composition is useful in combustion reactions by providing an efficient reaction and less harmful byproducts (abstract, page 2, lines 13-18).

Smith et al. is silent to the combustion reactions in which the fuel is used.

However, Graham et al. teach a process for producing hydrogen wherein a fuel, water, and a surfactant comprising an ethoxylated amine and alkylaryl sulfonate (claims 1 and 32 are steam reformed to produce hydrogen and one or more carbon oxides (claim 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide a process of making hydrogen in Smith et al. using the claimed composition because it is well-known to use a substantially similar composition in steam reforming as taught by Graham et al.

As to the boiling point range of claim 3, the hydrocarbon used in Smith et al. (ex. diesel) appears to be substantially similar to the hydrocarbons pointed out is applicant's specification. As the hydrocarbons used in both the prior art and the instant application are substantially similar, the boiling points should be substantially similar.

As to claims 5 and 6, the prior art of record teaches a composition that is substantially similar to the composition claimed. Therefore, one of ordinary skill in the art would recognize that the properties of the composition of the prior art are

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substantially similar to the properties of the claimed composition because the two compositions are substantially similar.

As to claim 4, Graham et al. teach that the water used in the fuel composition is purified [0049]. Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide purified water in Smith et al. in order to perform a substantially similar process as taught by Graham et al.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL A. WARTALOWICZ whose telephone number is (571)272-5957. The examiner can normally be reached on 8:30-6 M-Th and 8:30-5 on Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wayne Langel/ Primary Examiner, Art Unit 1793

Paul Wartalowicz July 16, 2008

Wayne Langel Primary Examiner A.U. 1793